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(54) **METHOD FOR REDUCTION OF CELL VIABILITY BY COLD PLASMA TREATMENT ON BREAST CANCERS BASED ON MOLECULAR PROFILING**

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ABSTRACT

A method for treatment of breast cancer using molecular profiling. The method comprises performing a molecular analysis of target breast cancer cells, identifying markers associated with the target breast cancer cells based on the performed molecular analysis, selecting on a graphical user interface of a cold atmospheric plasma generator the identified markers associated with the target breast cancer cells, selecting with a processor in the cold atmospheric plasma generator preferred cold atmospheric plasma settings associated with the identified markers in a database stored in a storage in the cold atmospheric plasma generator, and applying cold atmospheric plasma with the cold atmospheric plasma generator at the selected cold atmospheric pressure settings to the target breast cancer cells.

